David Kimelman

List of Publications by Citations

46 papers	3,038 citations	31 h-index	55 g-index
145 ext. papers	3,393 ext. citations	10.6 avg, IF	5.44 L-index

#	Paper	IF	Citations
46	A homeobox gene essential for zebrafish notochord development. *Nature*, **1995**, 378, 150-7	50.4	400
45	The events of the midblastula transition in Xenopus are regulated by changes in the cell cycle. *Cell*, **1987**, 48, 399-407	56.2	279
44	A dominant-negative form of p63 is required for epidermal proliferation in zebrafish. *Developmental Cell*, **2002**, 2, 607-16	10.2	185
43	Mesoderm induction: from caps to chips. *Nature Reviews Genetics*, **2006**, 7, 360-72	30.1	161
42	Canonical Wnt signaling dynamically controls multiple stem cell fate decisions during vertebrate body formation. *Developmental Cell*, **2012**, 22, 223-32	10.2	157
41	Tcf4 can specifically recognize beta-catenin using alternative conformations. *Nature Structural Biology*, **2001**, 8, 1048-52		152
40	Regulation of canonical Wnt signaling by Brachyury is essential for posterior mesoderm formation. *Developmental Cell*, **2008**, 15, 121-33	10.2	144
39	Wnt signaling and the evolution of embryonic posterior development. *Current Biology*, **2009**, 19, R215-9	6.3	138
38	Transgenic zebrafish reveal stage-specific roles for Bmp signaling in ventral and posterior mesoderm development. *Development (Cambridge)*, **2005**, 132, 2333-43	6.6	116
37	Move it or lose it: axis specification in Xenopus. *Development (Cambridge)*, **2004**, 131, 3491-9	6.6	114
36	Brachyury establishes the embryonic mesodermal progenitor niche. *Genes and Development*, **2010**, 24, 2778-83	12.6	91
35	The homeobox genesvoxandventare redundant repressors of dorsal fates in zebrafish. *Development (Cambridge)*, **2001**, 128, 2407-2420	6.6	84
34	hrT is required for cardiovascular development in zebrafish. *Development (Cambridge)*, **2002**, 129, 5093-5101	6.6	70
33	Sustained Bmp signaling is essential for cloaca development in zebrafish. *Development (Cambridge)*, **2006**, 133, 2275-84	6.6	69
32	One-Eyed Pinhead and Spadetail are essential for heart and somite formation. *Nature Cell Biology*, **2002**, 4, 821-5	23.4	65
31	Rho-regulated myosin phosphatase establishes the level of protrusive activity required for cell movements during zebrafish gastrulation. *Development (Cambridge)*, **2009**, 136, 2375-84	6.6	52
30	BMP-4 regulates the dorsal-ventral differences in FGF/MAPKK-mediated mesoderm induction in Xenopus. *Developmental Biology*, **1995**, 172, 242-52	3.1	52

29	Tales of Tails (and Trunks): Forming the Posterior Body in Vertebrate Embryos. *Current Topics in Developmental Biology*, **2016**, 116, 517-36	5.3	50
28	Spatial regulation of floating head expression in the developing notochord. *Developmental Dynamics*, **1997**, 209, 156-65	2.9	50
27	Interplay between FGF, one-eyed pinhead, and T-box transcription factors during zebrafish posterior development. *Developmental Biology*, **2003**, 264, 456-66	3.1	48
26	Gravin regulates mesodermal cell behavior changes required for axis elongation during zebrafish gastrulation. *Genes and Development*, **2007**, 21, 1559-71	12.6	46
25	Restricted expression of cdc25a in the tailbud is essential for formation of the zebrafish posterior body. *Genes and Development*, **2014**, 28, 384-95	12.6	44
24	The regulation of mesodermal progenitor cell commitment to somitogenesis subdivides the zebrafish body musculature into distinct domains. *Genes and Development*, **2006**, 20, 1923-32	12.6	44
23	Laminin alpha5 is essential for the formation of the zebrafish fins. *Developmental Biology*, **2007**, 311, 369-82	3.1	42
22	Anterior-posterior patterning in early development: three strategies. *Wiley Interdisciplinary Reviews: Developmental Biology*, **2012**, 1, 253-66	5.9	40
21	Presynaptic partner selection during retinal circuit reassembly varies with timing of neuronal regeneration in vivo. *Nature Communications*, **2016**, 7, 10590	17.4	40
20	Wnt signaling and tbx16 form a bistable switch to commit bipotential progenitors to mesoderm. *Development (Cambridge)*, **2015**, 142, 2499-507	6.6	33
19	Cdc25 and the importance of G2 control: insights from developmental biology. *Cell Cycle*, **2014**, 13, 2165-71	4.7	33
18	Bmp inhibition is necessary for post-gastrulation patterning and morphogenesis of the zebrafish tailbud. *Developmental Biology*, **2009**, 329, 55-63	3.1	33
17	Transdifferentiation of fast skeletal muscle into functional endothelium in vivo by transcription factor Etv2. *PLoS Biology*, **2013**, 11, e1001590	9.7	31
16	Completion of the epithelial to mesenchymal transition in zebrafish mesoderm requires Spadetail. *Developmental Biology*, **2011**, 354, 102-10	3.1	31
15	Tbx16 and Msgn1 are required to establish directional cell migration of zebrafish mesodermal progenitors. *Developmental Biology*, **2015**, 406, 172-85	3.1	28
14	Combinatorial signaling in development. *BioEssays*, **1994**, 16, 577-81	4.1	25
13	Regulation of posterior body and epidermal morphogenesis in zebrafish by localized Yap1 and Wwtr1. *ELife*, **2017**, 6,	8.9	21
12	Bmp signaling: turning a half into a whole. *Cell*, **2005**, 123, 982-4	56.2	12

11	Alternative splicing of sept9a and sept9b in zebrafish produces multiple mRNA transcripts expressed throughout development. *PLoS ONE*, **2010**, 5, e10712	3.7	11
10	Hox13 genes are required for mesoderm formation and axis elongation during early zebrafish development. *Development (Cambridge)*, **2020**, 147,	6.6	9
9	Mesoderm induction and patterning. *Results and Problems in Cell Differentiation*, **2002**, 40, 15-27	1.4	7
8	A novel cold-sensitive mutant of ntla reveals temporal roles of brachyury in zebrafish. *Developmental Dynamics*, **2016**, 245, 874-80	2.9	6
7	Cell shape regulation by Gravin requires N-terminal membrane effector domains. *Biochemical and Biophysical Research Communications*, **2008**, 375, 512-516	3.4	6
6	Identification of in vivo Hox13-binding sites reveals an essential locus controlling zebrafish brachyury expression. *Development (Cambridge)*, **2021**, 148,	6.6	5
5	Squinting at the zebrafish axis. *Developmental Cell*, **2006**, 10, 6-7	10.2	4
4	Author response: Regulation of posterior body and epidermal morphogenesis in zebrafish by localized Yap1 and Wwtr1 **2017**,		2
3	Ground, Path, and Fruition: Teaching Zebrafish Development to Tibetan Buddhist Monks in India. *Zebrafish*, **2018**, 15, 648-651	2	2
2	On the fast track to organizer gene expression. *Developmental Cell*, **2010**, 19, 190-2	10.2	1
1	Establishing The Body Plan: The First 24 Hours of Zebrafish Development **2020**, 81-88		1